Credit Name: CSE 3120 Object-Oriented Programming 1
Assignment Name: Digit Extractor Mastery
Decribe the errors you've encountered while working on this assignment. What caused the error and how do you overcome the error?

Error 1:

```
64
65          //Whole number
x 66        case "w": System.out.println("your integer is " + num.whole);
67              break;
68
69          //Ones place
x 70        case "o": System.out.println("The ones place digit is: " + num.ones);
71              break;
72
73          //Tens palce
x 74        case "t": System.out.println("The tens place digit is: " + num.tens);
75              break;
76
77          //Hundreds place
x 78        case "h": System.out.println("The hundreds place digit is: " + num.hund);
79              break;
80
```

Program was showing errors and not running properly when calling the methods over from Numb.java class into DigitExtractorMastery class.
It highlighted the method names, which made me refer to Numb.java and see what was going wrong.

```
//method gives the whole
public int whole() {
    return num;
}

//method gives the ones pl
public int ones() {
    return num%10; //
```
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```
//method gives the tens pl
public int tens() {
    return (num/10)%10
}

//method gives the hundred
public int hund() {
    return (num/100)%1
}
```

I realized that the method names included the () for parameters, but since I didn't have any parameters I forgot to type them in!

```java
//Whole number
case "w": System.out.println("your integer is " + num.whole());
    break;

//Ones place
case "o": System.out.println("The ones place digit is: " + num.ones());
    break;

//Tens palce
case "t": System.out.println("The tens place digit is: " + num.tens());
    break;

//Hundreds place
case "h": System.out.println("The hundreds place digit is: " + num.hund());
    break;
```

I added the parentheses and the errors went away.

```
Please enter an integer of choice:123
Display (W)hole number
Display (O)nes number
Display (T)ens number
Display (H)undreds number
(Q)uit Program
Please pick an option:
h
The hundreds place digit is: 1
Display (W)hole number
Display (O)nes number
Display (T)ens number
Display (H)undreds number
(Q)uit Program
Please pick an option:
q
```

Program works fine now!